

AF/3711
JW



Corres. and Mail
BOX AF

MS AF
REPLY UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP 3711

PATENT
0754-0192P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:	Masatoshi YOKOTA	Conf.:	1286
Appl. No.:	10/601,652	Group:	3711
Filed:	June 24, 2003	Examiner:	Alvin HUNTER
For:	GOLF BALL		

DO NOT ENTER ^{DAH} 11/17/04

LARGE ENTITY TRANSMITTAL FORM
FOR REPLY AFTER FINAL UNDER 37 C.F.R. § 1.116

MS AF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

October 28, 2004

Sir:

Transmitted herewith is a Reply in the above-identified application.

- ☐ The enclosed document is being transmitted via the Certificate of Mailing provisions of 37 C.F.R. § 1.8.
- ☐ The enclosed document is being transmitted via facsimile.

The fee has been calculated as shown below:

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA	RATE	ADDITIONAL FEE
TOTAL	10	-	20	=	0	\$ 18	\$0.00
INDEPENDENT	2	-	3	=	0	\$ 88	\$0.00
<input type="checkbox"/> FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM						\$300	\$0.00
						TOTAL	\$0.00

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A golf ball comprising a cover,
wherein the cover is made from a cover material including
a cured product of a thermosetting resin composition containing
a thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an
isocyanate group-terminated urethane prepolymer and a polyamine
compound;

the isocyanate group-terminated urethane prepolymer contains
an isocyanate component formed by at least one diisocyanate
compound selected from the group consisting of 4,4'-
dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and
isophorone diisocyanate; and

the stiffness modulus and shore D hardness of the cover
material satisfy the following equation:

$$2.0 \leq A/B \leq 5.0, \quad 40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness.

2. (Previously Presented) A golf ball according to claim
1, wherein the stiffness modulus and shore D hardness of the cover
material satisfy the following equation:

DO NOT ENTER
11/17/64
AAM

$$2.0 \leq A/B \leq 4.0.$$

3. (Original) A golf ball according to claim 1, wherein the stiffness modulus of the cover material is 80 to 260 MPa.

4. (Previously Presented) A golf ball according to claim 1, wherein the shore D hardness of the cover material is 45 to 55.

5. (Cancelled)

6. (Currently Amended) A method of producing a golf ball having a cover made from a material including a cured product of thermosetting resin composition comprising:

selecting a cover material satisfying the following equation:

$$2.0 \leq A/B \leq 5.0$$

$$40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness; and

covering a ball body with the cover material, wherein
the cover is made from a cover material including a cured
product of a thermosetting resin composition containing a
thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate.

7. (Previously Presented) The method according to claim 6, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 4.0.$$

8. (Previously Presented) The method according to claim 6, wherein the stiffness modulus of the cover material is 80 to 260 MPa.

9. (Previously Presented) The method according to claim 6, wherein the shore D hardness of the cover material is 45 to 55.

10. (Cancelled).

11. (New) A golf ball according to claim 1, wherein the thermosetting urethane resin composition consists essentially of an isocyanate group-terminated urethane prepolymer and a polyamine compound.

12. (New) The method according to claim 6, wherein the thermosetting urethane resin composition consists essentially of an isocyanate group-terminated urethane prepolymer and a polyamine compound.